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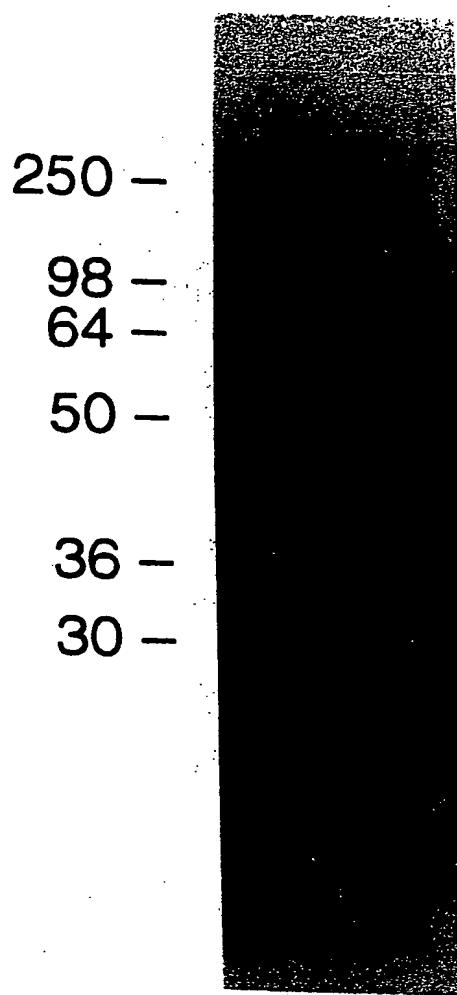


FIG. 1

GGGCAAAACTTCCCCCGGATTATATGGAAAGGGAAACTTGGC
CCGTATTCAAGGCCACGGTTGGGCGGAATGAATTTTCGTTCCG
GAAAAAGTAATTCCCCGGAACGTAGGTATCGTTCATAGGCTGCCA
AATGGATATAGGTGCAAAGTAAAAAAACTGAGCCAAGCAAAGGATAG
AGAAGTCTGTAAATCATCGCAGGTTAAAGGGGGATGTTATTTAGCCTG
CAAATAGTGTAAATTATTGGATCCTGAAAGAGAAAAGGACGAATGCCCTG
AAGATAAGAACATTATTGATATAAATTATAATTTTATGAAGCGGA
GTAATTAAATTATCTCTCAGTTTGTGATGCAAACGTCTTCCATA
AGTTCTTCTTCAATGATTCTAGCTTATTCTGCTGCTTTAAATGGG
GGGGATATGCAGCAGAAATCATGGTCCTCAAGGAATTACGATGGGA
GACGTTACTGTATCATTCCCTACTGTATAGGAGATCCGAGTGGGA
CTACTGTTTCTCAGGAGAGTTAACATAAAAATCTTGACAATTCT
ATTGCAGCTTGCCTTAAGTTGGAACTTATTAGGAGTTTAC
TGTGTTAGGGAGAGGACACTCGTTACTTCCAGAACATACGGACTTCTA
CAAATGGGCAGCTCTAAGTAATAGCGCTGCTGATGGACTGTTACTATT
GAGGGTTAAAGAATTATCCTTCCAATTGCAATTCAATTGCCCCT
ACTGCCTGCTGCAACGACTAATAAGGTAGCCAGACTCCGACGACAACAT
CTACACCGTCTAATGGTACTATTCTAAACAGATCTTGTACTC
AATAATGAGAAGTCTCATTCTAGTAATTAGTCTCTGGAGATGGGG
AGCTATAGATGCTAAGAGCTAACGGTCAAGGAATTAGCAAGCTTGTG
TCTTCAAGAAAATCTGCTCAACGCTGATGGGGAGCTTGTCAAGTAGTC
ACCAGTTCTGCTATGGCTAACGAGGCTCTATTGCTTGTAGCGAA
TGTGAGGAGTAAGAGGGGAGGGATTGCTGCTTCAAGGATGGCAGC
AGGGAGTGTACATCTACTTCAACACAAGATCCAGTAGTAAGTTTCC
AGAAATACTCCGGTAGAGTTGATGGAACGTAGCCCAGTAGGAGGAGG
GATTTACTCCTACGGAACGTGCTTCTGAATAATGGAAAACCTTGT
TTCTCAACAATGTTGCTTCTCTGTTACATTGCTGCTAAGCAACCAACA
AGTGGACAGGCTCTAATACGAGTAATAATTACGGAGATGGAGGAGCTAT
CTTCTGTAAGAATGGGCGCAAGCAGGATCCAATACTCTGGATCAGTT
CCTTGATGGAGAGGGAGTAGTTCTTGTAGCAATGTAGCTGCTGG
AAAGGGGAGCTATTATGCCAAAAGCTCGGTTGCTAACTGTGGCCC
TGTACAATTAAAGGAATATCGCTAATGATGGTGGAGCGATTATTAG
GAGAATCTGGAGAGCTCAGTTATCTGCTGATTATGGAGATATTATTC

FIG. 2A

GATGGGAATCTTAAAAGAACAGCCAAAGAGAATGCTGCCGATGTTAATGG
CGTAACTGTGTCCTCACAGCCATTGATGGGATCGGGAGGGAAAATAA
CGACATTAAGAGCTAACGCAGGGCATCAGATTCTTTAATGATCCCATC
GAGATGCCAAACGAAATAACCAGCCAGCCAGTCTCCAAACTCTAAA
AATTAACGATGGTGAAGGATAACACAGGGATATTGTTTGCTAATGGAA
GCAGTACTTGTACCAAAATGTTACGATAGAGCAAGGAAGGATTGTTCT
CGTAAAAAGGCAAAATTATCAGTCAATTCTAAGTCAGACAGGTGGAG
TCTGTATATGGAAGCTGGGAGTACATGGGATTTGTAACTCCACAACCAC
ACAACAGCCTCGCCGCTAATCAGTGTACCGCTTCCAATCTGCAT
TTGTCTCTTCTTGTAGCAAACAATGCAGTTACCAATCCTCCTAC
CAATCCTCCAGCGCAAGATTCTCATCCTGCAGTCATTGGTAGCACAACTG
CTGGTTCTGTTACAATTAGTGGGCTATCTTTTGAGGATTGGATGAT
ACAGCTTATGATAGGTATGATTGGCTAGGTTCTAATCAAAAAATCAATGT
CCTGAAATTACAGTTAGGGACTAACCCCCAGCTAATCCCCATCAGATT
TGAECTAGGGAATGAGATGCCAACATGGCTATCAAGGAAGCTGGAG
CTTGCCTGGGATCTAACAGCAAATAATGGCCTTAACTCTGAAAGC
TACATGGACTAAAATGGTATAATCCTGGGCTGAGCGAGTAGCTTCTT
TGGTTCCAATAGTTATGGGATCCATTAGATATACGATCTGGCAT
TCAGCAATTCAAGCAAGTGTGGATGGGCGCTTATTGTCAGGATTATG
GGTTCTGGAGTTCGAATTCTTCTATCATGACCCGATGCTTAGGTC
AGGGATATCGGTATATTAGTGGGGTTATCCTTAGGAGCAAACCTCCTAC
TTTGGATCATCGATGTTGGCTAGCATTACCGAAGTATTGGTAGATC
TAAAGATTATGTAGTGTGCTTCCAATCATCATGCTGCATAGGATCCG
TTTATCTATCTACCAACAAAGCTTATGTGGATCTTATTGTCGGAGAT
GCGTTATCCGTGCTAGCTACGGTTGGGAATCAGCATATGAAAACCTC
ATATACATTGAGAGGAGAGCGATGTTGCTGGATAATAACTGTCGG
CTGGAGAGATTGGAGCGGATTACCGATTGTGATTACTCCATCTAAGCTC
TATTGAAATGAGTTGGTCCTTCTGCAAGCTGAGTTCTTATGCCGA
TCATGAATCTTACAGAGGAAGGGCAAGCTGGGCTTCAAGAGCG
GACATCTCTAAATCTACGTTCTGTTGGAGTGAAGTTGATCGATGT
TCTAGTACACATCTAACAAATATAGCTTATGGGGCTTATATCTGTGA
TGCTTATGGCACCATCTCTGTAAGGAGACAACGCTCTATCCATCAAG
AGACATGGACAACAGATGCCCTTCATTAGCAAGACATGGAGTTGGT
AGAGGATCTATGTATGCTCTAACAGTAATATAGAACTATATGCCA
TGGAAAGATATGAGATCGAGATGCTCTGAGGCTATGGTTGAGTCAG

FIG. 2B

GAAGTAGAGTCCGTTCTAAAAATATTGGTTAGATAGTTAAGTGTAGCG
ATGCCCTTTCTTGAGATCTACATCATTGTTTTAGCTTGTGTTG
TTCCATTCTGTATGGATTCCGAGCTCTCCTCAAGTGTAAACGCCAATG
TAACCACTCCTTTAAGGGAGACGATGTTACTTGAATGGAGACTGCGCT
TTTGTCAATGTCTATGCAGGAGCTGAAGAAGGTTGATTATCTCAGCTAA
TGGCGACAATTAAACGATTACCGAACAAACCATACTTACAG
ATTCTCAAGGCCAGTTCTCAAATTATGCCCTCATTCAACAGGAGAG
ACACTTACTCTGAGAGATTTTCGAGTCTGATGTTCTCGAAAATGTT
TTGGGGAGAAAAGGAATGATCTCCGGAAAACCGTGAGTATTCCGGAG
CAGCGGAAGTGAATTCTGGATAACTCCGTGGGTATTCTCCTTATCT
ACTGTGCCAACCTCATCATCAACTCCGCCTGCTCCAACAGTTAGTGTG
TCGGAAAGGGTCTATTTCTGTAGAGACTAGTTGGAGATCTCAGCG
TCAAAAAGGGTCACTGTTGATAATAATGCCGGAAATTCCGAACAGTT
TTTCGAGGTAAGAATAATAATGCTGGTGGTGGAGCCAGTGGTTCCG
CTACACCATCAAGTACGACTTACAGTTAAAGGAAAGTT
TCTTCACAGATAACGTAGCCTCTTCCGGAGGCGGAGTGGTTATAAGG
CATTGTGCTTCAAGACAATGAAGGAGGCATATTCTCCGAGGGAAACA
CACCATACGATGATTAAGGATTCTGCTGCTACTAATCAGGATCAGAAT
ACGGAGACAGGAGGCCGTGGAGGAGTTATTGCTCCAGATGATTCTGT
AAACTTGAAGGCAATAAGGTTCTATTGTTGATTACAACTTGCAA
AAGGCAGAGGCCGAAGCATCCTAACGAAAGAATT

FIG. 2C

MQTSFHKKFLSMILAYSCCSLNNGGYAAEIMVPQGIYDGETLTVSFPTV
IGDPSTTVFSAGELTKNLDNSIAALPLSCFGNLLGSFTVLGRGHSLTF
ENIRTSTNGAALSNSAADGLTIEGFKEISFNCNSLLAVLPAAATTNKGS
QTPTTTSPSNGTIYSKTDLLLNNNEKFYSNLVSGDGGAIDAKSLTVQ
GISKLCVFQENTAQADGGACQVVTFSAMANEAPIAFVANAGVRGGGIA
AVQDGQQGVSSSTTEDPVVSFSRNTAVEFDGNVARVGGGYSYGNVAFL
NNGKTLFLNNVASPVYIAAKQPTSGQASNTSNNYGDGGAIFCKNGAQAGS
NNSGSVSDGEGVFFSSNVAAGKGGAIYAKKLSVANCPVQFLRNIAAND
GGAIYLGESEGELSLSDAYGDIIFDGNLKRTAKENAADVNGTVSSQAISM
CGGGKITTLRAKAGHQILFNDPIEMANGNNQPAQSSKLLKINDGEGYTGD
IVFANGSSTLYQNVTIEQGRIVLREKAKLSVNSLSQTGGSLYMEAGSTWD
FVTQPQQQQPPAANQLITLSNLHLSLSSLANNAVTNPPTNPPAQDSHPA
VIGSTTACSVTISGPIFFEDLDDTAYDRDWLGSNQKINVLKQLGTKPP
ANAPSDLTLGNEMPKYGYQGSWKLAWDPNTANNGPYTLKATWTKTGYNPG
PERVASLVPNSLWGSILDIRSAHSIQASVDGRSYCRGLWVSGVNFFYH
DRDALGQCYRYISGGYSLGANSYFCSSMFLGAFTEVGRSKDYVVCRSNH
HACIGSVYLSTQQALCGSYLFGDAFIIRASYCFGNQHMKTSYFAEESDVR
WDNNCLAGEIGAGLPIVITPSKLYLNELRPFVQAEFSYADHESFTEEGDQ
ARAFKSGHLLNLSPVGVKFDRCSSTHPNKYSFMAAYICDAYRTISGTET
TLLSHQEWTTDASFHLARHGVVVRGSMYASLTSNIEVYGHGRYEYRDASR
GYGLSAGSRVRF

FIG.3

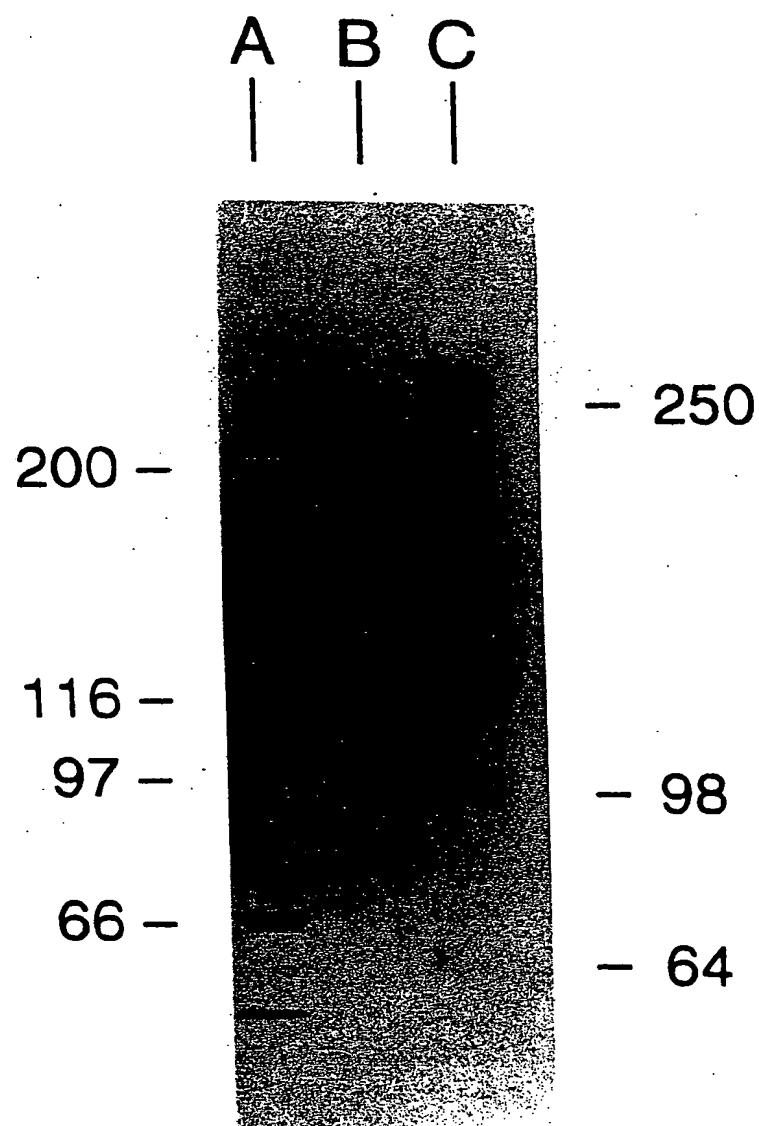


FIG.4

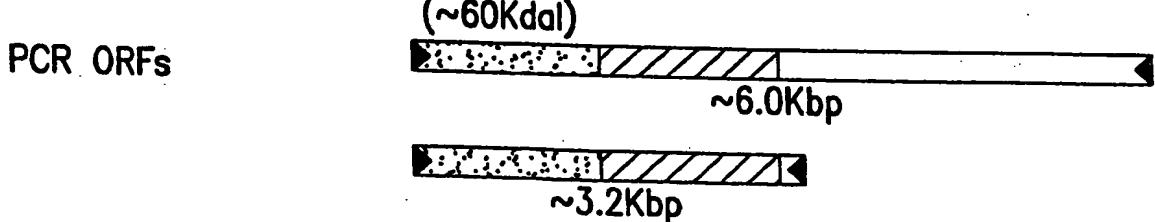
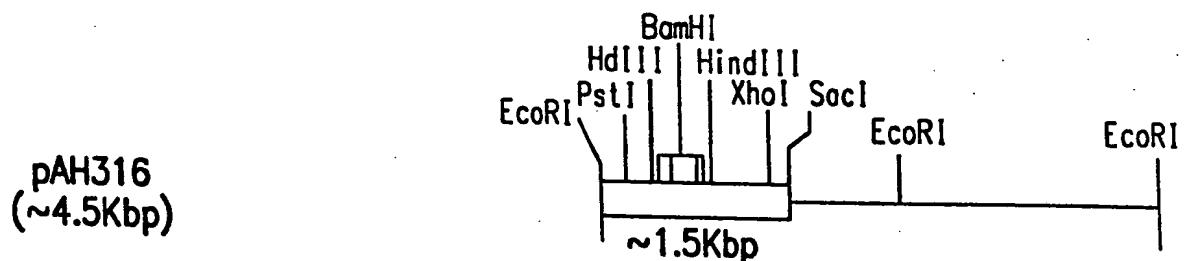
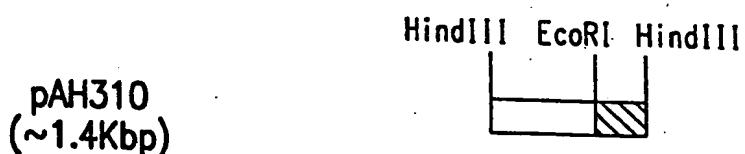
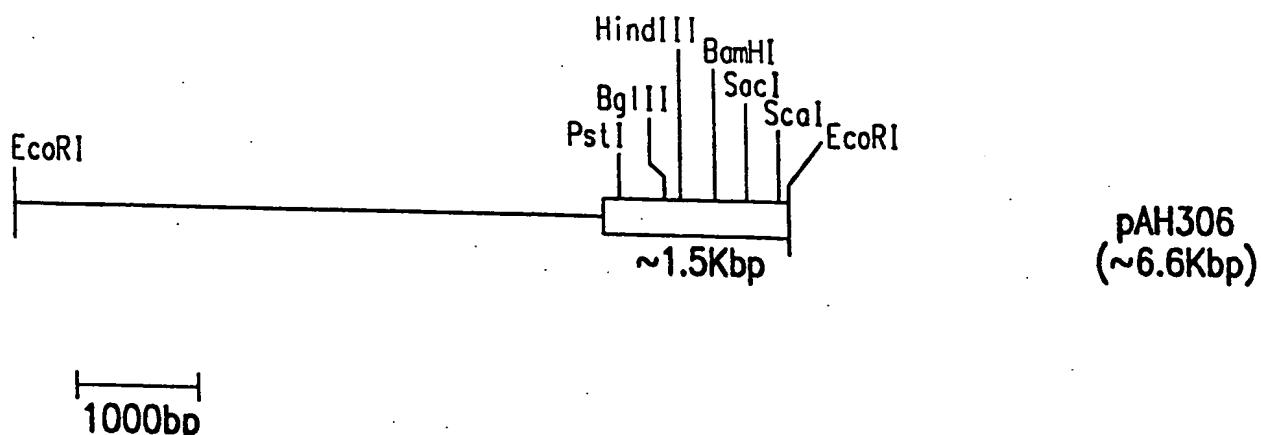


FIG.5

L2
F
B
EIMVPQGIYDGETLTVSFPTYTVIGDPSGTTVF

L2 SAGELTLKNLDNSIAALPLSCFGNLLGSFTVLGRGHSLTFENIRTSTNGAALSNSAADGL
F D NS
B D NS

L2 FTIEGFKELSFNCNSLLAVLPAATTNKGSQPTTSTPSNGTIYSKTDLLLNNNEKF^SFY
F P N S
B

200*
L2 SNLVSGDGGAIDAKSLTVQGISKLCVFQENTAQADGGACQVTSFSAMANEAPIAFVA
F | +
B S

L₂ NVAGVRGGGIAAVQDGQQGVSSSTTEDPVWSFSRNTAVEFDGNVARVGGG|YSYGNV
F
B

*300
L2 AFLNNNGKTLFLNNVASPVYIAAKQPTSGQASNTSNNYGDGGAIFCKNGAQAGSNNSGS
F E N D [A]
B E N D [A]

L₂ VSFDGEGVWFFSSNVAACKGGAIYAKKLSVANCPVQFLRNIA
F G
B G 400*

L2 SADYGDIDFDGNLKRTAKENAADVNGVTVSSQAISMGSGKITTLLRAKACHQILFNDPIE
F |
B M

500* EcoRI- I

L2	MANGNNQPAQSSKLLKINDGEGYTGDIV <u>FANGSSTLYQNVTIEQGRIVLREKA</u> LSVNSL	
F	EP	N
B	EP	N

FIG. 6A

L₂ SQTGGSLYMEAGSTWDFVTPQPPQQPPAANQIT
 F V I
 B L S

600*

L₂ PAQDSHPAVIGSTTACSVTISGPPIFFEDLDDTAYDRYDWLGSNQKINVLKLQLGTKPPA
 F P F
 B D Q S

700*

L₂ NAPSDLTLGNEMPKYGYQGSWKLAWDPNTANNGPYTLKATWTKTGYNPGPERVASLV
 F
 B

L₂ PNSLWGSILDIRSAHSAIQASVDGRSYCRGLWWSGVSNFFYHDRDALCQQGYRYISCGYS
 F S
 B

800*

L₂ LGANSYFGSSMFGLAFTEVFGRSKDYVVCRSNHHACICSVYLSTQQALCGSYLFGDAFI
 F K
 B K V

L₂ RASYGFGNQHMKTSYTFAEESDVRWDNNCLAGEIGAGLPIVITPSKLYLNELRPFVQAEF
 F C V V T
 B

900*

L₂ SYADHESFTEEGDQARAFKSCHLLNLSPVGVKFDRCSSTHPNKYSFMAAYICDAYRTI
 F R M
 B R M

1000*

L₂ SGTEPLLSHQEWTTDCAFHLARHGVVVRGSMYASLTSNIEVYGHGRYEYRDASRGYGL
 F Q
 B Q

1013*

L₂ SAGSRVRF
 F K
 B K

FIG. 6B

7969-100

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FIG.7A

7969-100

(Sheet 11 of 11)

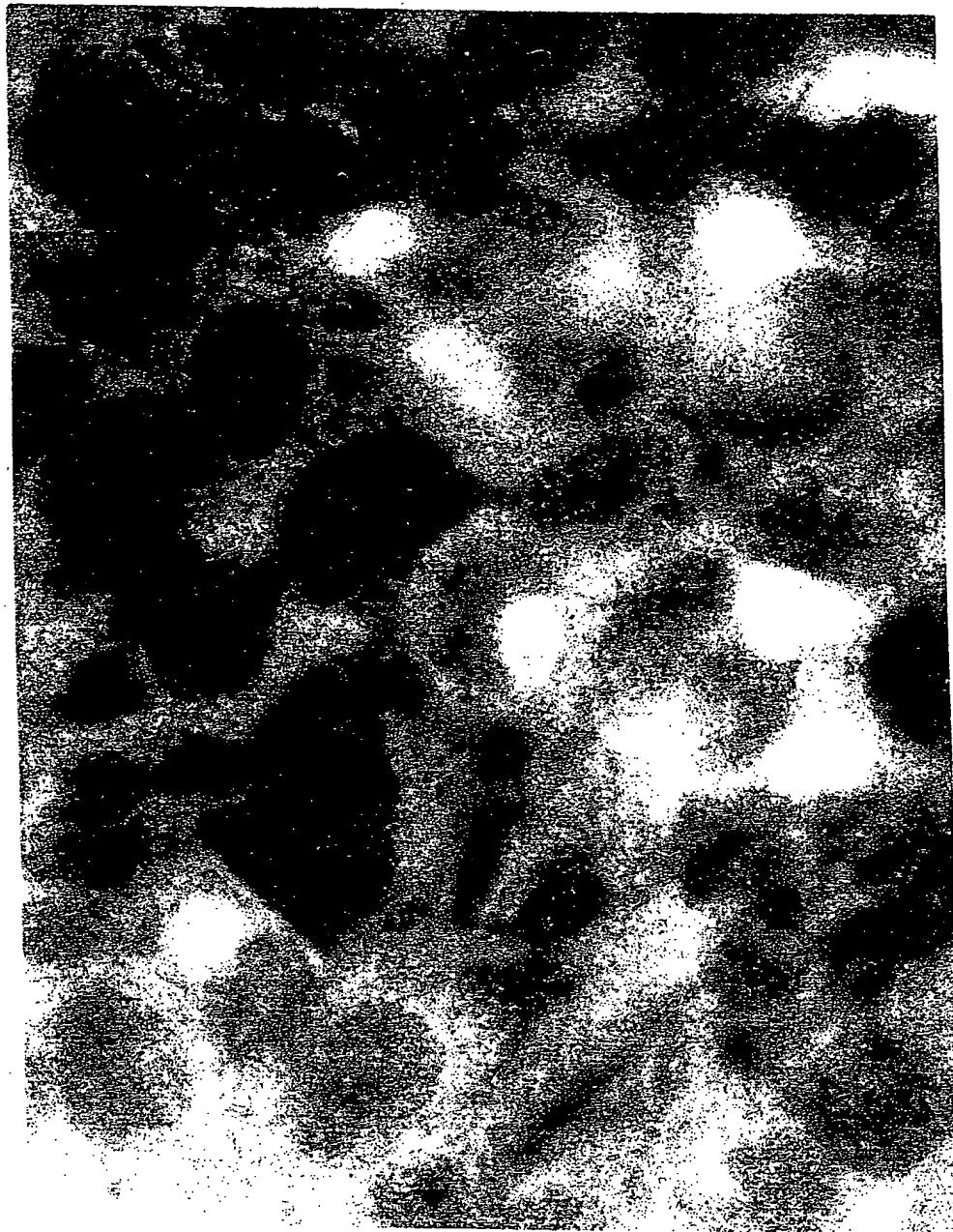


FIG. 7B